

## SPECIFICATION FOR BIODIESEL (B100) – ASTM D6751-06

June 2006

Biodiesel is defined as the mono alkyl esters of long chain fatty acids derived from vegetable oils or animal fats, for use in compression-ignition (diesel) engines. This specification is for pure (100%) biodiesel prior to use or blending with diesel fuel. #

Property	<b>ASTM Method</b>	Limits	Units
Flash Point	D93	130 min.	Degrees C
Water & Sediment	D2709	0.050 max.	% vol.
Kinematic Viscosity, 40 C	D445	1.9 - 6.0	mm²/sec.
Sulfated Ash Sulfur S 15 Grade	D874 D5453	0.020 max.	% mass
S 500 Grade  Copper Strip Corrosion	D130	500 max. No. 3 max.	
Cetane	D613	47 min.	
Cloud Point	D2500	Report	Degrees C
Carbon Residue 100% sample	D4530*	0.050 max.	% mass
Acid Number	D664	0.50 max.	mg KOH/gm
Free Glycerin	D6584	0.020 max.	% mass
Total Glycerin	D6584	0.240 max.	% mass
Phosphorus Content Distillation Temp, Atmospheric Equivalent Temperature,	D 4951	0.001 max.	% mass
90% Recovered	D 1160	360 max.	Degrees C
Sodium/Potassium	UOP 391	5 max, combined	ppm

<sup>\*</sup> The carbon residue shall be run on the 100% sample.

<sup>#</sup> A considerable amount of experience exists in the US with a 20% blend of biodiesel with 80% diesel fuel (B20). Although biodiesel (B100) can be used, blends of over 20% biodiesel with diesel fuel should be evaluated on a case-by-case basis until further experience is available.